### **2005 Compensatory Mitigation Monitoring Report**

### L.E. CARPENTER & COMPANY

170 North Main Street
Block 301, Lot 1 and Block 801, Lot 3
Borough of Wharton
Morris County, New Jersey

NJDEP File #1439-04-0001.1

Prepared for:



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JFNew Project #040229



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### **INTRODUCTION**

L.E. Carpenter & Company (LEC) implemented a Remedial Action Work Plan (RAWP) for the impacted portion of their ± 14.6-acre site (approximately 4.7 acres of disturbed area) located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). The site comprises Block 301, Lot 1 and Block 703, Lot 30 on the Borough of Wharton tax map. The project area is located in the USGS Dover, New Jersey quadrangle with center state plane coordinates of N 754326.5 E 470891.83 (NAD 1983) (Figure 2). A 2002 aerial photograph of the project site is also included (Figure 3).

Due to the parcel's previous utilization for mining and forging throughout the 1700's and 1800's, and vinyl manufacturing from 1943 to 1987, contaminated soils and groundwater were identified on the site. RMT, Inc. (RMT), on behalf of LEC, worked with the U.S. Environmental Protection Agency (USEPA) and the New Jersey Department of Environmental Protection (NJDEP) to implement the RAWP for those impacted areas of the property.

As part of the RAWP, several "Hot Spots" (areas exhibiting either inorganic or organic contaminant concentrations in soil in excess of the 1994 Record of Decision (ROD) cleanup criteria) were identified across the site for removal. Several areas identified for contaminant removal overlapped with jurisdictional wetlands on site. A total of 0.337 acre of jurisdictional wetlands was temporarily impacted as a result of site remediation activities (Figure 4). This acreage consisted of a 0.003 acre and 0.009 acre lobe of forested/scrub-shrub wetland on site, 0.286 acre of forested/scrub-shrub and emergent marsh wetland to the east on the Wharton Enterprise property, and 0.039 acre of the Air Products open-water drainage channel relocation to the northeast. Due to the fact that project activities and wetlands extend off site onto adjacent properties, the project area or site referenced in this plan includes the LEC parcel, several acres of the Wharton Enterprises parcel to the east, and the Air Products drainage channel to the northeast.

Upon completion of cleanup activities, the entire 0.337 acre of wetland disturbance was restored and enhanced as more diverse emergent wetland communities. All temporary wetland impacts were restored and mitigated for at their current locations. A Wetland Mitigation Construction Final Report, dated August 28, 2005, was submitted to the NJDEP upon completion of restoration activities.

The main source of hydrology for the restored wetland is a direct surface water flow from the Rockaway River. The wetland area was restored to pre-cleanup grades. The intention was to restore and enhance the pre-existing wetland so that there is no-net loss of wetlands as a result of the clean-up work completed by LEC.

The primary means through which wetland vegetation will be established in the mitigation area is through planting native seed and bare root stock trees, as well as natural colonization from the adjacent wetland areas. For a list of planted species within the mitigation area and transition zone, see Appendix A.





### **MONITORING**

Annual monitoring of the mitigation area is proposed for five years, unless it is apparent the wetland has been successfully established sooner, upon which case the permittee will propose elimination of any subsequent reports in writing to the NJDEP. Only upon written concurrence from the NJDEP will any reporting requirements be eliminated.

LEC will submit annual reports to the NJDEP by December 31 of each monitoring year in accordance with the requirements outlined in the NJDEP Mitigation Project Monitoring Reports Checklist for Completeness. The monitoring reports will, at a minimum, include the following:

- 1. Photographs of the wetland mitigation areas.
- 2. Assessment of vegetative communities and evaluation of whether a dominance of wetland species exists (according to federal wetland indicator status of species identified).
- 3. Wildlife utilization evaluation.
- 4. Hydrology evaluation.
- 5. Soil evaluation.
- 6. Sediment loading evaluation.
- 7. Evaluation of sideslope and transition area conditions. Evaluation of overall progress toward successful achievement of wetland creation as designed, per each of the performance standards dictated for the project. Perform a comparative assessment between existing conditions and the performance standards.

This document will serve as the first annual monitoring report.

### **METHODS**

A thorough review of the mitigation site was completed on October 3, 2005. Conditions were sunny and warm. The wetland was walked using the random meander method. All plant species encountered during the walk-through were recorded on inventory data sheets until no new plant species were observed (Appendix B). Plant names were used as listed in Gleason and Cronquist (1991).

Three permanent transect were set up in order to measure percent cover of vegetation in the wetland (Figure 4). Several 1-m<sup>2</sup> plots were laid along the transect in order to measure the vegetative cover. A percent cover value was assigned to each species found in the plots. Total vegetative cover was calculated by averaging the vegetative cover from each plot along the transect (Appendix B).

Information on hydrology was collected using evidence provided by soil pits. Permanent reference points were established at the beginning of the transects so that water levels can be recorded in the same location from year-to-year. The site was also inspected for problems such as erosion, sedimentation, and water quality issues. Signs of wildlife use were also recorded



during the walk-through. Finally, reference points were established from which to take photographs.

### **VEGETATIVE COMMUNITY**

The data from the plots was used to describe the vegetative cover. Of the total wetland and transition areas, an average of 74% was vegetated and the remaining 26% was bare soil.

Table 1. A summary of species diversity in the emergent zone.

Year	Total # Species	# Native Wetland Indicator Species	# Native Species
2005	49	19 (39%)	29 (59%)

Table 2. A summary of species diversity in the forested/scrub-shrub zone.

Year	Total # Species	# Native Wetland Indicator Species	# Native Species
2005	51	23 (45%)	34 (67%)

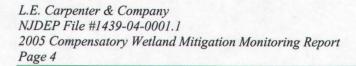
Table 3. A summary of species diversity in the transition zone.

Year	Total # Species	# Native Wetland Indicator Species	# Native Species
2005	37	7 (19%)	19 (51%)

The following invasive species were observed in small numbers within the mitigation wetlands during the initial monitoring visit: reed canary grass (*Phalaris arundinacea*), purple loosestrife (*Lythrum salicaria*), and giant reed (*Phragmites australis*). These species will be selectively treated using wetland-approved herbicides. Annual treatments will be performed twice each year through September 2009, or until all invasive populations have been effectively controlled.

Widespread mortality of the planted bareroot trees and shrubs was noted during the 2005 site visit. Late season installation (June 28), severe drought conditions throughout the 2005 growing season, and possibly deer predation, were likely contributors to the death of many of the installed trees. A replant of 250 bareroot trees is recommended to encourage sufficient coverage to meet mitigation requirements. It is recommended that this supplemental planting take place during the spring 2006 monitoring visit (April or May).

Much of the vegetation encountered in the wetland zones is comprised of upland weedy species (non-invasive). While some delay between seed installation and native vegetation establishment is anticipated, the absence of most seeded species at the end of the first growing season is a potential concern regarding the successful long-term development of the wetland communities. Drought conditions may have adversely affected the native seed, resulting in lower than expected germination rates. Future monitoring visits will include further assessment of the development





of native wetland vegetation at the site, and allow us to determine whether re-seeding will be necessary.

Six tree species were found in the mitigation area, including red maple (*Acer rubrum*), silver maple (*Acer saccharinum*), silky dogwood (*Cornus amomum*), green ash (*Fraxinus pennsylvanica*), black walnut (*Juglans nigra*), and pussy willow (*Salix discolor*). There were originally 375 tree/shrub species planted in the mitigation area. During the site visit, a count was made of all the surviving tree/shrub seedlings and 32 were found to be alive. This results in a 9% survival rate of planted trees and shrubs. Species specific survival numbers are present on the data sheets (Appendix B).

### **MAINTENANCE**

Invasive or noxious vegetation can oftentimes prevent or hinder the successful establishment of native species in a wetland mitigation area. For this reason, a routine wetland maintenance program is being implemented at the LEC project site. This program includes semi-annual site visits to assess and treat (if necessary) any invasive species found on the property. Based on knowledge of the site and adjacent communities, chemical applications have been selected as the most effective maintenance tool for control of invasive species.

Any potential browsing damage by herbivores will be noted and addressed during routine maintenance site visits. Should the need arise, deer or goose fencing will be erected around the seeded areas to promote growth and restrict grazing or browsing.

Subsequent to permit issuance and after the restored wetland areas had been planted, several federal agency personnel raised a concern over the use of barnyard grass (*Echinochloa crusgalli*) in the wetland restoration seed mix. Due to the fact that several respected botanical sources disagree on the status of barnyard grass as a native versus non-native species, it was decided that barnyard grass populations on the project site will be monitored. If at any time it is determined that barnyard grass is having a detrimental effect on the mitigation area or prohibiting the establishment of other native species, it will be effectively controlled during the semi-annual maintenance site inspections. At this time, barnyard grass does not appear to be a long-term concern.

### **HYDROLOGY AND WATER QUALITY**

The 2005 growing season was exceptionally dry, and many naturally occurring wetlands in the area were drier than normal. There was no area within the mitigation wetland that was inundated with water. At the eastern end of the emergent zone transect, a soil pit was dug to inspect hydrology. During the October site visit, the soil was saturated in this region at a depth of 20" below the surface. At the eastern end of the forested zone transect, the soil was saturated 6" below the surface.



### WILDLIFE HABITAT

Evidence of wildlife use was present in the mitigation wetland. Numerous bird species were identified during the site visit, as well as one mammal and one amphibian species. As the mitigation site progresses and the wetland vegetation becomes dominant, it is expected that the wildlife observations will continue to increase, and the desired goal of creating wildlife habitat within the mitigation area will be achieved. There were also 3 trees along the south border of the forested zone that unexpectedly blew over into the wetland (Appendix C, Photo 9). This should be beneficial to the wetland development as it provides a more diverse structural community within the mitigation area and provides immediate habitat for wildlife.

Table 4. Comprehensive list of wildlife observations in the mitigation wetland.

SCIENTIFIC NAME	COMMON NAME	
BIRDS		
Cyanocitta cristata	Blue jay	
Buteo jamaicensis	Red-tailed hawk	
Branta canadensis	Canada goose	
Zenaida macroura	Mourning dove	
Colaptes auratus	Northern flicker	
AMPHIBIANS		
Rana clamitans	Green frog	
MAMMALS		
Odocoileus virginianus	White-tailed deer	

### **SOILS**

During the October 2005 site visit, soil characteristics and textures were not specifically examined due to the fact that this had previously been done in June 2005. Results of the soil profile review were presented in the Wetland Mitigation Construction Final Report, dated August 28, 2005, and are again presented below.

Table 5. Soil profile review.

	Soil Depth	Munsell Soil Color	Soil Texture
Boring 1 (40.54.15.00748N 74.34.31.41719W)	0-10" 10-20"	10YR 4/3 10YR 3/3	Loam Loam
Boring 2 (40.54.14.42438N 74.34.31.14259W)	0-13" 13-20"	10YR 4/2 10YR 3/2	Loamy clay Loamy clay
Boring 3 (40.54.13.75148N 74.34.31.31904W)	0-15" 15-20"	10YR 4/3 10YR 3/1	Loam Loamy clay



	Soil Depth	Munsell Soil Color	Soil Texture
Boring 4 (40.54.13.94790N 74.34.29.98567W)	0-2" 2-20"	10YR 4/3 10YR 3/2	Loam Loam
Boring 5 (40.54.14.63046N 74.34.29.45719W)	0-9" 9-20"	10YR 4/3 10YR 3/2	Loam Loam
Boring 6 (40.54.12.80847N 74.34.34.70682W)	0-20"	10YR 3/3	Loam

### SEDIMENTATION AND EROSION CONTROL

There were no signs of erosion problems on the day the site was investigated. The potential for erosion issues exist due to the fact that 26% of the area remains unvegetated. It is expected that after the spring planting, an increase in vegetative cover will be sufficient to stabilize any remaining bare soil.

### **CONCLUSIONS**

The mitigation area began during a stressful year. The numbers of native and wetland species within the mitigation area were not as high as desired. However, due to extremely dry conditions and the fact that the site was planted less than one year ago, these preliminary results may be expected. When the mitigation wetland is finally able to experience spring hydrological events, it will provide a suitable environment for the germination of wetland species seeds, and the process of wetland restoration will be fully underway.

At this time, it is recommended that LEC proceed with the following steps.

- 1. Planting at least 250 additional bareroot trees in the spring of 2006
- 2. Continue maintenance visits for invasive species control to eliminate or effectively control their presence in the wetland mitigation area. LEC currently has a 5-year maintenance plan contract in place that includes semi-annual visits.

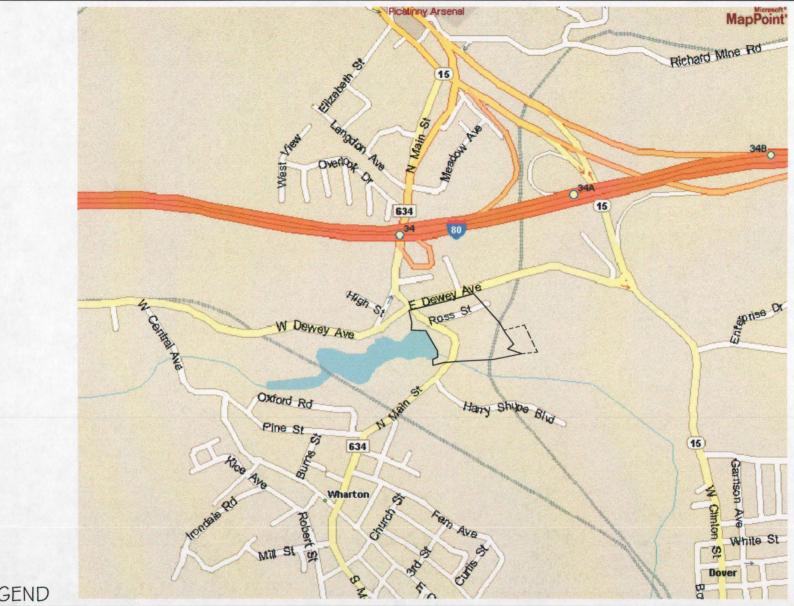
Due to the fact that wetland communities surround the mitigation site and elevations were restored to pre-existing contours with no impedance to surface or groundwater flow, we expect that wetland and transition zone restoration will continue to progress and be successful.

### REFERENCES

Gleason, Henry and Arthur Cronquist. 1991. Manual of Vascular Plants of North-eastern United States and Adjacent Canada. D. Van Nostrand Company, New York, New York. 910 pp.

**Figures** 





LEGEND



- APPROXIMATE PROPERTY BOUNDARY



- EXPANDED PROJECT AREA



### FIGURE I - LOCATION MAP

L.E. CARPENTER WHARTON, NEW JERSEY



SCALE: NTS

DATE: 09.23.04

FILE: 040229LocationMap



/

- APPROXIMATE PROPERTY BOUNDARY

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- EXPANDED PROJECT AREA

FIGURE 2 - USGS MAP

L.E. CARPENTER WHARTON, NEW JERSEY



SCALE: NTS DATE: 12.12.2005

FILE: 040229USGSmap

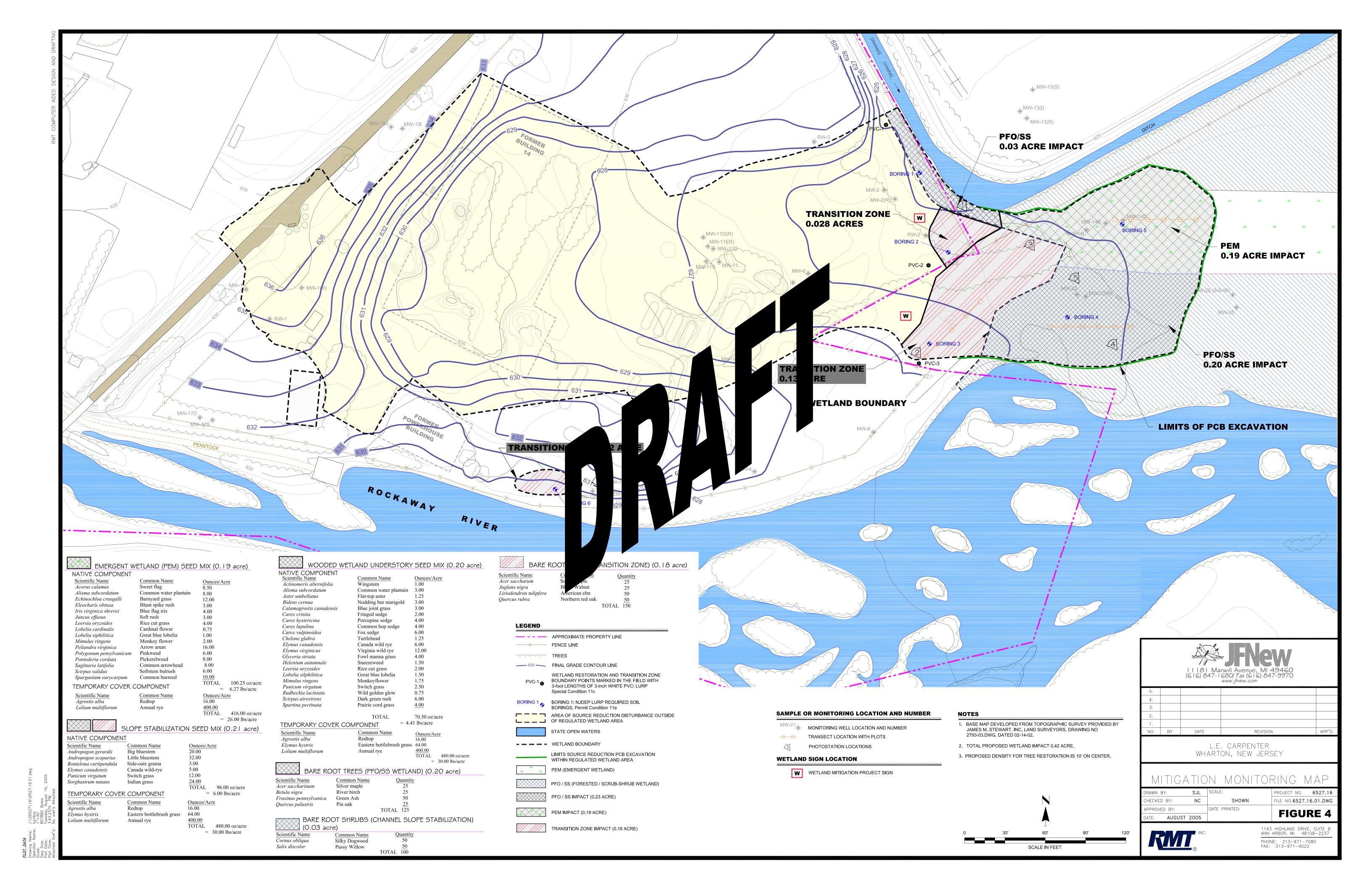
STATE PLANE COORDINATES - 754326.58N 47089 | .83E (NAD83)

SOURCE:USGS DOVER,NJ QUADRANGLE HUC-14 CODE 02030103030070

SCALE IN FEET

1143 HIGHLAND DRIVE, SUITE B ANN ARBOR, MI. 48108-2237

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Appendices



**Appendix A:** Planting List





### **EMERGENT WETLAND IMPACT AREA (0.19 acre)**

### Emergent Wetland Seed Mix (32.27 pounds/acre)

### Native Component

Scientific Name	Common Name	Ounces/Acre
Acorus calamus	Sweet flag	8.50
Alisma subcordatum	Common water plantain	8.00
Echinochloa crusgalli	Barnyard grass	12.00
Eleocharis ovata	Blunt spike rush	3.00
Iris virginica shrevei	Blue flag iris	4.00
Juncus effusus	Soft rush	3.00
Leersia oryzoides	Rice cut grass	4.00
Lobelia cardinalis	Cardinal flower	0.75
Lobelia siphilitica	Great blue lobelia	1.00
Mimulus ringens	Monkey flower	2.00
Peltandra virginica	Arrow arum	16.00
Polygonum pensylvanicum	Pinkweed	6.00
Pontederia cordata	Pickerelweed	8.00
Sagittaria latifolia	Common arrowhead	8.00
Scirpus validus	Softstem bulrush	6.00
Sparganium eurycarpum	Common burreed	10.00
TOTAL NATIVE FORBS AND GR	ASSES	100.25 = (6.27  lbs/acre)

### **Temporary Cover Component**

Scientific Name	Common Name	Ounces/Acre
Agrostis gigantea	Redtop	16.00
Lolium perenne	Annual rye	<u>400.00</u>
TOTAL		416.00 = (26.00  lbs/acre)



### FORESTED/SCRUB-SHRUB IMPACT AREA (0.20 acre)

### Wooded Wetland Understory Seed Mix (34.41 pounds/acre)

Native Component		
Scientific Name	Common Name	Ounces/Acre
Alisma subcordatum	Common water plantain	3.00
Aster umbellatus	Flat-top aster	1.25
Bidens cernua	Nodding bur marigold	3.00
Calamagrostis canadensis	Blue joint grass	3.00
Carex crinita	Fringed sedge	2.00
Carex hystericina	Porcupine sedge	4.00
Carex lupulina	Common hop sedge	4.00
Carex vulpinoidea	Fox sedge	6.00
Chelone glabra	Turtlehead	1.25
Elymus canadensis	Canada wild rye	6.00
Elymus virginicus	Virginia wild rye	12.00
Glyceria striata	Fowl manna grass	4.00
Helenium autumnale	Sneezeweed	1.50
Leersia oryzoides	Rice cut grass	2.00
Lobelia silphilitica	Great blue lobelia	1.50
Mimulus ringens	Monkeyflower	1.75
Panicum virgatum	Switch grass	2.50
Rudbeckia laciniata	Wild golden glow	0.75
Scirpus atrovirens	Dark green rush	6.00
Spartina pectinata	Prairie cord grass	4.00
Verbesina alternifolia	Wingstem	1.00
TOTAL NATIVE FORBS AND	GRASSES	70.50 = (4.41  lbs/acre)

Temporary	Cover	Component
1 Ciliboral v	COVCI	Component

Scientific Name	Common Name	Ounces/Acre
Agrostis gigantea	Redtop	16.00
Elymus hystrix	Eastern bottlebrush grass	64.00
Lolium multiflorum	Annual rye	400.00
TOTAL		$\overline{480.00} = (30.00 \text{ lbs/acre})$

### **Native Trees and Shrubs**

Scientific Name	Common Name	Quantity
Acer saccharinum	Silver maple	25
Betula nigra	River birch	25
Fraxinus pennsylvanica	Green ash	50
Quercus palustris	Pin oak	<u>25</u>
TOTAL TREES		125





### **DRAINAGE CHANNEL SIDESLOPE IMPACT AREA (0.03 acre)**

### Slope Stabilization Mix (36.00 pounds/acre)

Scientific Name	Common Name	Ounces/Acre
Andropogon gerardii	Big bluestem	20.00
Bouteloua curtipendula	Side-oats grama	3.00
Elymus canadensis	Canada wild-rye	5.00
Panicum virgatum	Switch grass	12.00
Schizachyrium scoparium	Little bluestem	32.00
Sorghastrum nutans	Indian grass	24.00
TOTAL NATIVE GRASSES		96.00 = (6.00  lbs/acre)

Temporary Cover Component		
Scientific Name	Common Name	Ounces/Acre
Agrostis gigantea	Redtop	16.00
Elymus hystrix	Eastern bottlebrush grass	64.00
Lolium perenne	Annual rye	400.00
TOTAL		480.00 = (30.00  lbs/acre)

### **Native Trees and Shrubs**

Scientific Name	Common Name	Quantity
Cornus amomum	Silky dogwood	50
Salix discolor	Pussy willow	<u>50</u>
TOTAL TREES		100



### **TRANSITION ZONE IMPACT AREA (0.18 acre)**

### Slope Stabilization Mix (36.00 pounds/acre)

Native Component		
Scientific Name	Common Name	Ounces/Acre
Andropogon gerardii	Big bluestem	20.00
Bouteloua curtipendula	Side-oats grama	3.00
Elymus canadensis	Canada wild-rye	5.00
Panicum virgatum	Switch grass	12.00
Schizachyrium scoparium	Little bluestem	32.00
Sorghastrum nutans	Indian grass	24.00
TOTAL NATIVE GRASSES		96.00 = (6.00  lbs/acre)

Temporary Cover Componen	t	
Scientific Name	Common Name	Ounces/Acre
Agrostis gigantea	Redtop	16.00
Elymus hystrix	Eastern bottlebrush grass	64.00
Lolium perenne	Annual rye	400.00
TOTAL		480.00 = (30.00  lbs/acre)

### **Native Trees and Shrubs**

Scientific Name	Common Name	Quantity
Acer saccharum	Sugar maple	25
Juglans nigra	Black walnut	25
Liriodendron tulipifera	Tulip tree	50
Quercus rubra	Red oak	<u>50</u>
TOTAL TREES		150

# Appendix B: Wetland Data Sheets



## DATA ENTRY FORM MITIGATION WETLAND MONITORING

Special Site Notes: Persistent drought conditions throughout 2005 growing season					
Project Number: 040229 Project Name/Location: RMT/New Jersey					
General Site Conditions: Dry Date: 10-03-2005					
Past and Present Weather: Sunny, dry  Hydrology: Soil moist to dry, no standing water					
Wildlife: Red-tailed hawk (2 adults with nest), blue jay (1 adult), Canada goose (10 adults), whitetail deer					
(4 adults), green frog (1 adult), mourning dove (2 ad	lults), northern flicker (1 adult)				

### **VEGETATION SAMPLING DATA**

Plot Number	Species Names	Cover	Plot Number	Species Names	Cover
Plot 1	Barbarea vulgaris	2%	Plot 5	Dactyloctenium aegyptium	19%
	Chenopodium album	1%		Echinochloa crusgalli	42%
	Dactyloctenium aegyptium	9%		Mollugo verticillata	4%
	Echinochloa crusgalli	2%		Panicum sp.	2%
	Lolium perenne	1%		Sambucus canadensis	2%
	Oxalis stricta	2%		Verbascum thapsus	2%
	<i>P</i> oa sp. #1	3%		Bare soil	29%
	Poa sp. #2	17%			
	Polygonum persicaria	2%			
	Setaria glauca	60%			
	Trifolium repens	1%			
Plot 2	Acalypha rhomboidea	1%			
	Dactyloctenium aegyptium	23%	]		_
	Panicum sp.	1%	]		
	Poa sp.#1	3%			
	Trifolium repens	1%			
	Bare soil	71%			
Plot 3	Dactyloctenium aegyptium	30%			
	Bare soil	70%			
Plot 4	Dactyloctenium aegyptium	78%			
	Setaria glauca	2%	1		<del>                                     </del>
	Bare soil	20%	1		

### **Transect 1: Transition Zone**

### Inventory:

**Species Names** 

Abutilon theophrasti

Acalypha rhomboidea

Amaranthus retroflexus

Ambrosia artemisiifolia

Barbarea vulgaris

Bidens connata

Carex sp.

Centaurea maculosa

Chenopodium album

Cyperus esculentus

Dactyloctenium aegyptium

Datura stramonium

Echinochloa crusgalli

Eragrostis cilianensis

Euphorbia maculata

Fraxinus pennsylvanica

Juglans nigra

Lolium multiflorum

Melilotus sp.

Mollugo verticillata

Oxalis stricta

Panicum sp.

Phytolacca americana

Plantago major

Poa sp. #1

Poa sp. #2

Polygonum pensylvanicum

Polygonum persicaria

Potentilla simplex

Rubus flagellaris

Sambucus canadensis

Setaria glauca

Solanum nigrum

Solidago altissima

Trifolium repens

Verbascum thapsus

Vitis riparia

### **Woody Species Count**

Fraxinus pennsylvanica - 1

Juglans nigra - 3

Transect 2:	Fransect 2: Emergent Wetland Zone					
Plot Number	Species Names	Cover	Plot Number	Species Names	Cover	
Plot 1	Acalypha rhomboidea	3%	Plot 3 (continued)	Oxalis stricta	2%	
	Cyperus esculentus	6%		Panicum capillare	24%	
	Echinochloa crusgalli	15%		Parthenocissus quinquefolia	2%	
	Leersia oryzoides	15%		Phytolacca americana	1%	
	Lythrum salicaria	21%		Plantago major	7%	
	Oxalis stricta	2%		Rumex crispus	7%	
	Phalaris arundinacea	15%		Setaria glauca	11%	
	Plantago lanceolata	2%		Solanum nigrum	5%	
	Polygonum hydropiperoides	3%		Unknown herbaceous #1	1%	
	Polygonum sagittatum	2%		Bare soil	40%	
	Rumex crispus	2%				
	Salix sp.	2%	6 Plot 4	Acalypha rhomboidea	3%	
	Toxicodendron radicans	1%		Amaranthus retroflexusus	2%	
	Unknown herbaceous #1	1%		Chenopodium album	1%	
	Bare soil	10%		Dactyloctenium aegyptium	27%	
				Daucus carota	3%	
Plot 2	Acalypha rhomboidea	2%		Echinochloa crusgalli	9%	
	Amaranthus retroflexusus	1%		Erechtites hieraciifolia	2%	
	Barbarea vulgaris	1%		Oxalis stricta	1%	
	Cyperus esculentus	3%		Plantago major	14%	
	Dactyloctenium aegyptium	17%		Poa sp. #1	4%	
	Eragrostis cilianensis	2%		Polygonum lapathifolium	2%	
	Medicago sp.	1%		Polygonum persicaria	3%	
	Panicum capillare	26%		Populus deltoides	1%	
	Plantago major	11%		Setaria glauca	9%	
	Polygonum lapathifolium	3%		Toxicodendron radicans	2%	
	Polygonum persicaria	3%		Verbascum thapsus	3%	
	Setaria glauca	4%		Bare soil	14%	
	Bare soil	26%				
Plot 3	Amaranthus retroflexusus	6%				
	Bidens connata	6%				
	Dactyloctenium aegyptium	50%				
	Echinochloa crusgalli	27%				
	Glechoma hederacea	3%				
	Medicago sp.	8%				

Plot Number	Emergent Wetland Zone Species Names	Cover	Plot Number	Species Names	Cover
Plot 5	Amaranthus retroflexusus	2%		Openies Hames	30101
1 100 0	Dactyloctenium aegyptium	14%	1		
		4%	1		
	Echinochloa crusgalli		1		
	Euphorbia maculata	4%	1		
	Medicago sp.	3%	1		
	Panicum sp.	18%	1		
	Plantago lanceolata	3%	1		
	<i>Poa</i> sp. #1	11%	1		
	Polygonum periscaria	1%	1		
	Populus deltoides	1%	1		
	Setaria glauca	11%	1		
	Solanum nigrum	2%			_
	Verbascum thapsus	1%			
	Bare soil	25%			
Plot 6	Acalypha rhomboidea	2%			
	Amaranthus retroflexusus	1%			
	Dactyloctenium aegyptium	15%			
	Echinochloa crusgalli	3%			
	Euphorbia maculata	4%			
	Glechoma hederacea	1%			
	Medicago sp.	3%			-
	Panicum capillare	8%			
	Plantago major	8%			
	<i>Poa</i> sp. #1	8%	1		
	Polygonum persicaria	8%			
	Populus deltoides	1%			
	Rhus typhina	1%			
	Setaria glauca	9%			
	Solanum nigrum	1%			
	Unknown herbaceous #2	1%			
	Bare soil	26%			
	Daic 2011	20%			

### Transect 3: Emergent Wetland Zone

Inventory:

**Species Names** 

Acalypha rhomboidea

Alliaria petiolata

Amaranthus retroflexusus

Aster lanceolatus

Barbarea vulgaris

Bidens connata

Boehmeria cylindrica

Carex lacustris

Cornus sp.

Cyperus esculentus

Dactyloctenium aegyptium

Echinochloa crusgalli

Eragrostis cilianensis

Euphorbia maculata

Eupatorium rugosum

Glechoma hederacea

Gleditsia triacanthos

Impatiens sp.

Juncus effusus

Leersia oryzoides

Lythrum salicaria

Medicago sp.

Mikania scandens

Oxalis stricta

Panicum capillare

Panicum sp.

Phalaris arundinacea

Pilea pumila

Plantago lanceolata

Plantago major

Poa sp. #1

Polygonum hydropiperoides

Polygonum lapathifolium

Polygonum periscaria

Polygonum sagittatum

Populus deltoides

Rhus typhina

Rosa palustris

**Hydrology:** 

Soil moist from 0-20", saturated at

20"+

Rubus pensylvanicus

Rumex crispus

Salix sp.

Setaria glauca

Solanum nigrum

Solidago rugosa

Toxicodendron radicans

Typha angustifolia

Unknown herbaceous #1

Unknown herbaceous #2

Verbascum thapsus

Plot Number	Species Names	Cover	Plot Number	Species Names	Cover
Plot 1	Acer rubrum	i		Dactyloctenium aegyptium	25%
	Bidens cernua	3%		Daucus carota	4%
	Cyperus esculentus	9%		Echinochloa crusgalli	12%
	Dactyloctenium aegyptium	7%		Lythrum salicaria	1%
	Echinochloa crusgalli	19%		Medicago sp.	5%
	Eragrostis cilianensis	33%		Plantago major	12%
	Lythrum salicaria	9%		Poa sp. #1	8%
	Mikania scandens	5%		Polygonum persicaria	5%
	Plantago major	3%		Setaria glauca	8%
	Polygonum hydropiperoides	3%		Verbascum thapsus	1%
	Rhus typhina	2%		Verbena urticifolia	1%
				Bare soil	12%
Plot 2	Amaranthus retroflexusus	2%			
	Chenopodium album	2%		Abutilon theophrasti	2%
	Cirsium discolor	2%		Cirsium discolor	5%
	Cyperus esculentus	3%		Cyperus esculentus	3%
	Dactyloctenium aegyptium	34%		Dactyloctenium aegyptium	5%
	Echinochloa crusgalli	4%		Echinochloa crusgalli	10%
	Euphorbia maculata	5%		Panicum capillare	5%
	Lythrum salicaria	1%		Plantago major	15%
	Oxalis stricta	2%		Poa sp. #1	25%
	Panicum dichotomiflorum	7%		Polygonum lapathifolium	2%
	Plantago major	10%		Setaria glauca	2%
	Polygonum hydropiperoides	2%		Solanum nigrum	2%
	Polygonum persicaria	2%		Verbascum thapsus	8%
	Rhus typhina	3%		Bare soil	35%
	Rumex crispus	2%			
	Setaria glauca	4%			
	Verbascum thapsus	5%			
	Bare soil	10%			
Plot 3	Acer rubrum	3%			
	Amaranthus retroflexusus	2%			
	Bidens connata	1%			

Plot Number	Species Names	Cover	Plot Number	Species Names	Cover
Plot 5	Acer rubrum	2%			
	Bidens connata	4%	1		
	Dactyloctenium aegyptium	5%	1		
	Fraxinus pennsylvanica	3%	1		
	Medicago sp.	3%	1		
	Oxalis stricta	4%	1		
	Plantago major	3%	1		
	Poa sp.#1	28%			
	Polygonum hydropiperoides				
	Polygonum persicaria	2%	1		
	Rhus typhina	4%			
	Bare soil	38%			
	<u> </u>	30 /0			
Plot 6	Acalypha rhomboidea	1%			
	Dactyloctenium aegyptium	10%			
	Panicum capillare	3%			
	Plantago major	4%			
	Poa sp. #1	54%			
	Polygonum persicaria	2%			
	Populus deltoides	2%			
	Potentilla simplex	3%			
	Rubus sp.	3%			
	Setaria glauca	4%			
	Verbascum thapsus	2%			
	Bare soil	12%			
	Daic 30ii	12 /0			

### **Transect 3: Wooded Wetland Zone**

Inventory:

**Species Names** 

Abutilon theophrasti

Acalypha rhomboidea

Acer rubrum

Acer saccharinum

Amaranthus retroflexusus

Barbarea vulgaris

Betula nigra

Bidens cernua

Bidens connata

Chenopodium album

Cirsium discolor

Cornus amomum

Cyperus esculentus

Dactyloctenium aegyptium

Daucus carota

Decodon verticillatus

Echinochloa crusgalli

Eragrostis cilianensis

Euphorbia maculata

Euthamia graminifolia

Fraxinus pennsylvanica

Impatiens sp.

Leersia oryzoides

Lobelia spicata

Lythrum salicaria

Medicago sp.

Mikania scandens

Oxalis stricta

Panicum capillare

Panicum dichotomiflorum

Penthorum sedoides

Phragmites australis

Pilea pumila

Plantago major

Poa sp. #1

**Hydrology:** 

Soil moist from 0-6", saturated from

6"+

Polygonum hydropiperoides

Polygonum lapathifolium

Polygonum persicaria

Polygonum scandens

Populus deltoides

Potentilla simplex

Quercus palustris

Rhus typhina

Rubus sp.

Rumex crispus

Salix discolor

Saururus cernuus

Setaria glauca

Solanum nigrum

Verbascum thapsus

Verbena urticifolia

#### **Woody Species Count**

Acer saccharinum - 12

Cornus amomum -13

Salix discolor - 2

# Appendix C: Photographs of Wetland Development





Photo 1. View of small forested wetland zone and transition zone from northwest corner of planting area. (Photostation 1)



Photo 2. View looking south from ditch toward transition zone. (Photostation 1)

Site Photographs
October 3, 2005
L.E. Carpenter & Company
Wetland Restoration Area
Wharton, Morris County, New Jersey

JFNew # 040229



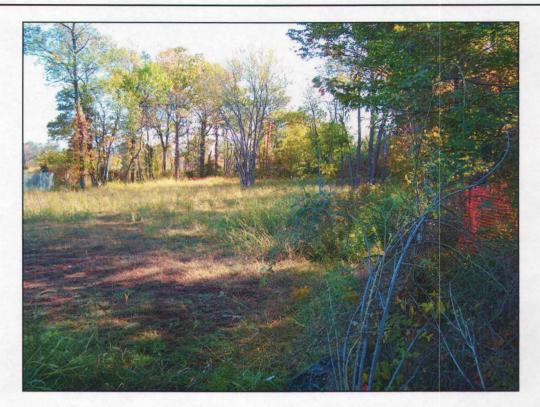


Photo 3. Northeast view of planting area from southwest corner. (Photostation 2)



Photo 4. View looking east at emergent wetland zone. (Photostation 3)

Site Photographs
October 4, 2005
L.E. Carpenter & Company
Wetland Restoration Area
Wharton, Morris County, New Jersey

JFNew # 040229



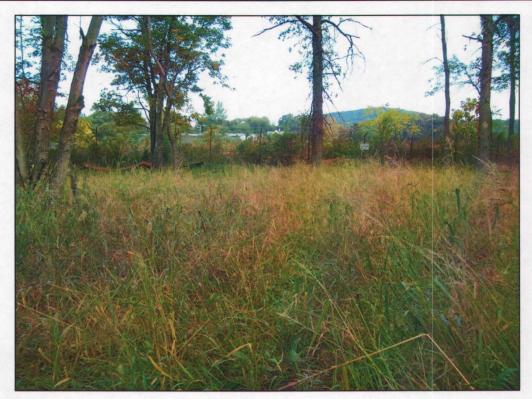


Photo 5. View looking north into emergent wetland zone from wooded wetland zone. (Photostation 4)



Photo 6. View looking southwest from emergent wetland zone toward wooded wetland zone and transition zone. (Photostation 4)

Site Photographs
October 4, 2005
L.E. Carpenter & Company
Wetland Restoration Area
Wharton, Morris County, New Jersey

JFNew # 040229



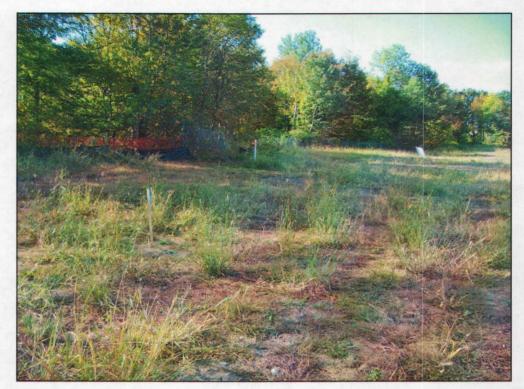


Photo 7. View looking southwest at transition zone. (Photostation 5)

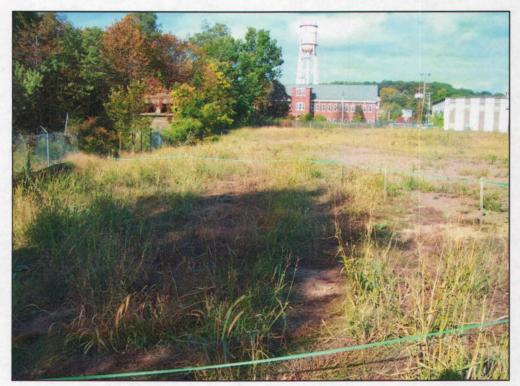


Photo 8. View looking west at small transition zone area (0.02 acre). (Photostation 6)

Site Photographs
October 4, 2005
L.E. Carpenter & Company
Wetland Restoration Area
Wharton, Morris County, New Jersey

JFNew # 040229





Photo 9. Three downed mature trees along south edge of planting area. (Photostation 4)

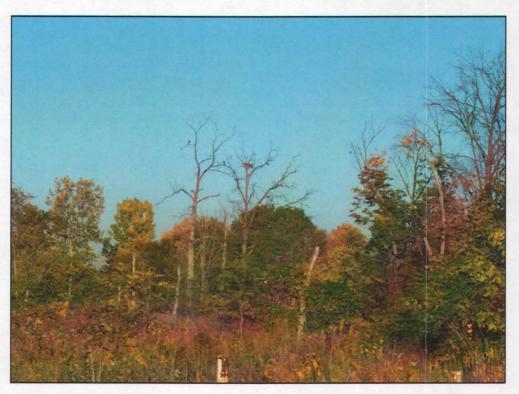


Photo 10. Two adult red-tailed hawks and nest in tree adjacent to site. (Photostation 1)

Site Photographs
October 3, 2005
L.E. Carpenter & Company
Wetland Restoration Area
Wharton, Morris County, New Jersey

JFNew # 040229



# Appendix D: NJDEP Permit 1439-04-0001.1





### State of New Jersey

Department of Environmental Protection

Bradley M. Campbell Commissioner

Richard J. Codey

Acting Governor

Land Use Regulation Program
P.O. Box 439, Trenton, NJ 08625-0439
Fax # (609) 292-8115
www.state.nj.us/dep/landuse

FEB 2 5 2005

Mr. Nicholas Clevett RMT, Inc., Michigan 2025 E. Beltline Avenue SE, Suite 402 Grand Rapids, MI 49546

RE: Authorization for Freshwater Wetlands Statewide General Permit No. 4

File No.: 1439-04-0001.1 (FWW 040001)
Applicant: L.E. Carpenter & Company

Block: 301; Lot: 1

Block: 801; Lots: 3, 4, & 5

Wharton Borough, Morris County Nearest Waterway: Rockaway River

Passaic River Basin

Dear Mr. Clevett:

The Land Use Regulation Program has reviewed the referenced application for a Statewide General Permit authorization pursuant to the requirements of the Freshwater Wetlands Protection Act Rules at N.J.A.C. 7:7A. The proposed activity is authorized by Statewide General Permit No. 4, which allows regulated activities in freshwater wetlands, transition areas and State open waters for the investigation, cleanup or removal of hazardous substances or pollutants, which are undertaken, authorized or otherwise expressly approved in writing by the Department of Environmental Protection (Department).

### Limit of Authorized Disturbance

The approved plans are prepared by RMT, Inc., dated February 21, 2005, last revised February 21, 2005, and entitled:

"L.E. Carpenter, Wetland and Stream Encroachment Permit Applications, Wharton, New Jersey"

"F3 - Wetland Impact Map", Sheet No. F3 of 7;

"F4 - Wetland Restoration Plan", Sheet No. F4 of 7;

"F5 - Construction Staging and Excavation Plan", Sheet No. F5 of 7;

"F6 - Final Grading Plan", Sheet No. F6 of 7;

"F7 - Details", Sheet No. F7 of 7

Statewide General Permit File No.: 1439-04-0001.1

Based on the approved plans, the authorized activity involves the disturbance of approximately 0.42 of an acre of freshwater wetlands and/or State open waters and approximately 0.19 acres of wetland transition areas for removal of contaminated soil and restoration of the disturbed areas. Any additional disturbance of freshwater wetlands, State open waters or transition areas besides that shown on the approved plans shall be considered a violation of the Freshwater Wetlands Protection Act unless the activity is exempt or a permit is obtained prior to the start of the disturbance from the Land Use Regulation Program.

### **Permit Conditions**

The activities allowed by this authorization shall comply with the following conditions. Failure to comply with these conditions shall constitute a violation of the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-1 et seq.).

### Special Conditions

- 1. All regulated activities at this existing Superfund site must be in accordance with the requirements of the Department's Site Remediation Program and the United States Environmental Protection Agency, including any requirements contained within an approved Remedial Action Workplan.
- 2. In order to protect the trout maintenance and trout stocked waters of the Rockaway River, any proposed grading or construction activities within the banks of this river are prohibited between March 15 and June 15 of each year. In addition, any activity within the 100-year flood plain or flood hazard area of this watercourse which could introduce sediment into said stream or which could cause an increase in the natural level of turbidity is also prohibited during this period. The Department reserves the right to suspend all regulated activities on site should it be determined that the applicant has not taken proper precautions to ensure continuous compliance with this condition.
- 3. All backfill soils shall consist of clean, suitable material free from toxic pollutants in toxic amounts.
- 4. In addition to restoration of the wetland transition area as shown on the approved plan entitled "F4- Wetland Restoration Plan", the applicant shall also restore an area of wetland transition area not currently shown on the plan. This area extends 50' from the wetlands on the Wharton Enterprise property. These wetlands are classified as Intermediate resource value. This additional wetland transition area is drawn on the attached map portion. The restoration of this additional area shall be consistent with the notes on Sheet No. F4 of 7.
- 5. The mitigation project must be conducted prior to or concurrent with the construction of the approved project.

Statewide General Permit File No.: 1439-04-0001.1

- 6. Mitigate for the loss of <u>0.16 acres</u> of emergent wetlands and <u>0.26 acres</u> of forested and scrub/shrub wetlands through an on-site restoration project as shown on the plan entitled "F4 Wetland Restoration Plan, L.E. Carpenter, Wetland and Stream Encroachment Permit Applications, Wharton, New Jersey", dated February 21, 2005, last revised February 21, 2005, and prepared by RMT, Inc. In the event there is a conflict between the permit conditions and the approved mitigation plan and proposal the permit conditions take precedent.
- 7. The permittee shall notify the Land Use Regulation Program, in writing, at least thirty (30) days in advance of the start of construction of the wetland mitigation project for an on-site pre-construction meeting between the permittee, the contractor, the consultant and the Program.
- 8. The mitigation designer must be present during critical stages of construction of the mitigation project this includes but is not limited to herbicide applications, sub-grade inspection, final grade inspection, and planting inspection to ensure the intent of the mitigation design and their predicted wetland hydrology is realized in the landscape. Mitigation designs are not static documents and changes may be necessary to ensure success of the project. It shall be the prerogative of the mitigation consultant to make changes to the design should field conditions warrant such action.
- 9. Immediately following final grading of the site, a disc must be run over the site to eliminate compaction. The mitigation designer must be present to oversee this phase of the project and confirm with the Department this activity has occurred prior to planting of the site.
- 10. Immediately following the final grading of the mitigation site and prior to planting, the permittee shall notify the Program for a post-grading construction meeting between the permittee, contractor, consultant and the Program. The permittee must give the Program at least thirty (30) days notice prior to the date of this meeting.
- 11. Within 30 days following the final grading and planting of the mitigation project, the permittee shall submit a final report to the Land Use Regulation Program. The final report shall contain, at a minimum, the following information:
  - a. A completed WETLAND MITIGATION PROJECT COMPLETION OF CONSTRUCTION FORM (attached) which certifies that the mitigation project has been constructed as designed and that the proposed area of wetland creation, restoration or enhancement has been accomplished;
  - b. As built plans which depict final grade elevations at one foot contours and include a table of the species and quantities of vegetation that were planted including any grasses that may have been used for soil stabilization purposes;
  - c. Show on the as-built plans that the boundaries of the wetland mitigation area has been visibly marked with 3 inch white PVC pipe extending 4 feet above the ground surface. The stakes must remain on the site for the entire monitoring period;

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- d. Photos of the constructed wetland mitigation project with a photo location map as well as the GPS waypoints in NJ state plane coordinates NAD 1983;
- e. To document that the required amount of soil has been placed/replaced over the entire area of the mitigation site, provide a minimum of 6 soil profile descriptions to a depth of 20 inches. The location of each soil profile description should be depicted on the as built plan as well as provide the GPS waypoints in NJ state plane coordinates NAD 1983;
- f. Submit soil test results demonstrating at least 8% organic carbon content (by weight) was incorporated into the A-horizon for sandy soil and for all other soil types 12% organic content or if manmade top soil was used it consisted of equal volumes of organic and mineral materials;
- g. The permittee shall post the mitigation area with several permanent signs, which identify the site as a wetland mitigation project and that mowing, cutting, dumping and draining of the property is prohibited; and
- h. The sign must also state the name of the permittee, LURP permit number along with a contact name and phone number.
- 12. If the Program determines that the mitigation project is not constructed in conformance with the approved plan, the permittee will be notified in writing and will have 60 days to submit a proposal to indicate how the project will be corrected. No financial surety will be released by the Program until the permittee demonstrates that the mitigation project is constructed in conformance with the approved plan, all soil has been stabilized and there is no active erosion.
- 13. The permittee shall monitor the mitigation project for 5 full growing seasons if it is a proposed forested or scrub/shrub wetland and 3 full growing seasons for an emergent wetland or State open water after the mitigation project has been constructed. The permittee shall submit monitoring reports to the Land Use Regulation Program no later than December 31<sup>st</sup> of each monitoring year (All monitoring reports must include the standard items identified in the attachment and the information requested below).
- 14. All monitoring report will include all the following information (see attached monitoring report checklist):
  - a. All monitoring reports except the final one must include documentation that it is anticipated, based on field data, that the goals of the wetland mitigation project including the transition area, as stated in the approved wetland mitigation proposal and the permit will be satisfied. If the permittee is finding problems with the mitigation project and does not anticipate the site will be a full success then recommendations on how to rectify the problems must be included in the report with a time frame in which they will be completed;
  - b. All monitoring reports except the final one must include field data to document that the site is progressing towards 85 percent survival and 85 percent area coverage of mitigation plantings or target hydrophytes (Target hydrophytes are non-invasive native species to the area and similar to ones identified on the mitigation planting plan). If the proposed plant community is a scrub/shrub or a forested wetland the permittee must also demonstrate each year with data that the woody species are thriving, increasing in stem density and height each year. If the field data shows that the mitigation project is failing to meet the vegetation survival, coverage and health goals, the monitoring

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report should contain a discussion of steps that will be taken to rectify the problem, including a schedule of implementation;

- c. All monitoring reports except the final one must include documentation of any invasive or noxious species (see below for list of species) colonizing the site and how they are being eliminated. The permittee is required to eliminate either through hand-pulling, application of a pesticide or other Department approved method any occurrence of an invasive/noxious species on the mitigation site during the monitoring period;
- d. All monitoring reports except the final one must include documentation that demonstrates the proposed hydrologic regime as specified in the mitigation proposal appears to be met. If the permittee is finding problems with the mitigation project and does not anticipate the proposed hydrologic regime will be or has not been met then recommendations on how to rectify the problem must be included in the report along with a time frame within which it will be completed;
- e. The final monitoring report must include documentation to demonstrate that the goals of the wetland mitigation project including the required transition area, as stated in the approved wetland mitigation proposal and the permit, has been satisfied. Documentation for this report will also include a field wetland delineation of the wetland mitigation project based on techniques as specified in the <u>Federal Manual for Identifying and Delineating Jurisdictional Wetlands</u> (1989);
- f. The final monitoring report must include documentation the site has an 85 percent survival and 85 percent area coverage of the mitigation plantings or target hydrophytes. The permittee must also document that all plant species are healthy and thriving and if the proposed plant community contains trees demonstrate that the trees are at least five feet in height;
- g. The final monitoring report must include documentation demonstrating the site is less than 10 percent occupied by invasive or noxious species such as but not limited to Phalaris arundinacea (Reed canary grass), Phragmities australis (Common reed grass), Pueraria lobata (Kudzu), Typha latifloia (Broad-leaved cattail), Typha angustifolia (Narrowed leaved cattail), Lythrum salicaria (Purple loosestrife), Ailanthus altissima (Tree-of-heaven), Berberis thunbergi (Japanese barberry), Berberis vulgaris (Common barberry), Elaeagnus angustifloia (Russian olive), Elaeagnus umbellata (Autumn olive), Ligustrum obtusifolium (Japanese privet), Ligustrum vulgare (Common privet) and Rosa multiforia (Multiflora rose);
- h. The final monitoring report must include documentation that demonstrates that the proposed hydrologic regime as specified in the mitigation proposal, which proves the mitigation site is a wetland has been satisfied. The documentation shall include when appropriate monitoring well data, stream gauge data, photographs and field observation notes collected throughout the monitoring period; and
- 1. The final monitoring report must include documentation that the site contains hydric soils or there is evidence of reduction occurring in the soil throughout the delineated wetlands.
- 15. Once the required monitoring period has expired and the permittee has submitted the final monitoring report, the Program will make the finding that the mitigation project is either a

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success or a failure. This mitigation project will be considered successful if the permittee demonstrates all of the following:

- a. That the goals of the wetland mitigation project including acreage and the required transition area, as stated in the approved wetland mitigation proposal and the permit, has been satisfied. The permittee must submit a field wetland delineation of the wetland mitigation project based on the <u>Federal Manual for Identifying and Delineating Jurisdictional Wetlands</u> (1989) which shows the exact acreage of State open waters, emergent, scrub/shrub and/or forested wetlands in the mitigation area;
- b. The site has an 85 percent survival and 85 percent area coverage of the mitigation plantings or target hydrophytes which are species native to the area and similar to ones identified on the mitigation planting plan. All plant species in the mitigation area are healthy and thriving. All trees are at least five feet in height;
- c. The site is less than 10 percent occupied by invasive or noxious species such as but not limited to Phalaris arundinacea (Reed canary grass), Phragmities australis (Common reed grass), Pueraria montana (Kudzu), Typha latifloia (Broad-leaved cattail), Typha angustifolia (Narrowed leaved cattail), Lythrum salicaria (Purple loosestrife), Ailanthus altissima (Tree-of-heaven), Berberis thunbergi (Japanese barberry), Berberis vulgaris (Common barberry), Elaeagnus angustifloia (Russian olive), Elaeagnus umbellata (Autumn olive), Ligustrum obtusifolium (Japanese privet), Ligustrum vulgare (Common privet) and Rosa multiforia (Multiflora rose);
- d. The site contains hydric soils or there is evidence of reduction occurring in the soil; and,
- e. The proposed hydrologic regime as specified in the mitigation proposal, which proves the mitigation site is a wetland has been satisfied.
- 16. If the mitigation project is considered a failure, the permittee is required to submit a revised mitigation plan to rectify the wetland mitigation site. The plan shall be submitted within 60 days of receipt of the letter from the Program indicating the wetland mitigation project was a failure.
- 17. The permittee shall assume all liability for accomplishing corrective work should the Program determine that the compensatory mitigation has not been 100% satisfactory. Remedial work may include re-grading and/or replanting the mitigation site. This responsibility is incumbent upon the permittee until such time that the Department makes the finding that the mitigation project is successful.

In addition to the above conditions and the conditions noted at N.J.A.C. 7:7A 4.3 and 5.4, the following general conditions must be met for the activity authorized under this Statewide General Permit:

### General Conditions:

18. All fill and other earth work on the lands encompassed within this permit authorization shall be stabilized in accordance with "Standards for Soil Erosion and Sediment Control in New Jersey" to prevent eroded soil from entering adjacent waterways or wetlands at any time during and subsequent to construction.

- 19. This permit is revocable in accordance with DEP regulations and State law.
- 20. The issuance of this permit shall not be deemed to affect in any way other actions by the Department on any future application.
- 21. The activities shown on the approved plans shall be constructed and/or executed in conformity with any notes and details on said plans and any conditions stipulated herein.
- 22. No change in plans or specifications shall be made except with the prior written permission of the Department.
- 23. The granting of this authorization shall not be construed to in any way affect the title or ownership of the property, and shall not make the Department or the State a party in any suit or question of ownership of the property.
- 24. This permit is not valid and no work shall be undertaken pursuant to this authorization until all other required federal, state, and local approvals, licenses and permits necessary for commencement of work onsite have been obtained.
- 25. A complete, legible copy of this permit shall be kept at the work site and shall be exhibited upon request of any person.
- The permittee shall allow the Program the right to inspect the construction site and also shall provide the Bureau of Coastal and Land Use Compliance and Enforcement, NJDEP, 401 East State Street, P.O. Box 422, Trenton, New Jersey 08625 with written notification 7 days prior to the start of the authorized work.
- 27. This authorization is valid for five years from the date of this letter unless more stringent standards are adopted by rule prior to this date.

### Transition Area

The wetlands affected by this permit authorization are of Ordinary and Intermediate resource value. The wetland located associated with the drainage channel located along the eastern side of the site are classified as Ordinary resource value. No standard transition area is required adjacent to Ordinary resource value wetlands. The wetlands located on the adjacent Wharton Enterprise property are classified as Intermediate resource value and have a standard required transition area or buffer of 50 feet. In addition, all of the wetlands are classified as priority wetlands by the United States Environmental Protection Agency since they drain into the Passaic River Basin. This General Permit includes a transition area waiver that allows encroachment only in that portion of the transition area that has been determined by the Department to be necessary to accomplish the regulated activities. Any additional regulated activities conducted within the standard transition area shall require a separate transition area

Statewide General Permit File No.: 1439-04-0001.1

waiver from the Program. Regulated activities within a transition area are defined at N.J.A.C. 7:7A-2.6.

### Consistency with the Areawide Water Quality Management Plan

This project has not been reviewed for consistency with the relevant Water Quality Management Plan or Statewide Water Quality Management Planning Rules (N.J.A.C. 7:15). As such, there is no intended or implied approval regarding additional permits which may be required from the Department. For treatment works approvals, the consistency determination will be performed by the Bureau of Engineering and Permitting (North/South) which may be contacted at (609) 292-6894 for North (Middlesex, Hunterdon and Counties north) or (609) 633-1139 for South (Mercer, Monmouth and Counties south). For general information concerning the water quality management planning process, please contact the Division of Watershed Management at (609) 633-1179.

### Appeal of Decision

In accordance with N.J.A.C. 7:7A-1.7, any person who is aggrieved by this decision may request a hearing within 30 days of the decision date by writing to: New Jersey Department of Environmental Protection, Office of Legal Affairs, Attention: Adjudicatory Hearing Requests, P.O. Box 402, Trenton NJ 08625. This request must include a completed copy of the Administrative Hearing Request Checklist.

If you have any questions regarding this authorization, please contact Susan Michniewski of our staff at (609) 633-9277. Please reference the above file number.

Sincerely.

Mark A. Godfrey, Supervisor Morris & Bergen Counties Region

Money. Gopking

Bureau of Inland Regulation

Attachments (map sketch, mitigation forms)

c. Anthony Cinque, Site Remediation Program
Jodale Legg, Land Use Regulation Program – Mitigation Unit
Nadine White, Land Use Regulation Program
Bureau of Coastal and Land Use Compliance and Enforcement
Wharton Borough Clerk
Wharton Borough Construction Official
Wharton Borough Planning Board

Wharton Borough Environmental Commission